

09/937,262

=> d his

(FILE 'HOME' ENTERED AT 13:36:27 ON 24 AUG 2003)

FILE 'CA' ENTERED AT 13:36:36 ON 24 AUG 2003

L1 E BAECK ANDRE C/AU  
72 S E2-E5  
E VEGA JOSE L/AU  
L2 38 S E3-E5  
E TCHEOU ERIC/AU  
L3 19 S E3  
E BUSCH ALFRED/AU  
L4 85 S E3-E4  
E HEINZMAN STEPHEN W/AU  
L5 61 S E2-E5  
E INGRAM BARRY T/AU  
L6 59 S E1, E3, E4  
E STRUILLOU ARNAUD P/AU  
L7 11 S E2-E4  
E MARTIAN JULIAN D/AU  
E MARTIN JULIAN D/AU  
L8 1 S E4  
E CURTIS MALCOLM/AU  
L9 1 S E3  
L10 6 S MONTMORILLONITE(P) (ACID OR HCL OR  
HYDROCHLORIC) (P) TREAT? (P) (D  
L11 14 S MONTMORILLONITE(P) (ACID OR HCL OR HYDROCHLORIC) (P) TREAT?  
AND  
L12 8 S L11 NOT L10  
L13 12 S (MONTMORILLONITE# OR SMECTITE#) (P) (ACID? OR HCL OR  
HYDROCHLOR  
L14 3 S L13 NOT L11  
L15 33 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR  
HYDROCHLOR  
L16 199 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR  
HYDROCHLOR  
L17 1 S L16 AND DETERGENT#  
L18 22 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR  
HYDROCHLOR

FILE 'USPATFULL' ENTERED AT 14:03:55 ON 24 AUG 2003

L19 4 S L10  
L20 256 S L18  
L21 25 S (MONTMORILLONITE# OR SMECTITE#) (P) ACID? (5A) (HCL OR  
HYDROCHLOR  
L22 26 S (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL  
COMPA  
L23 433 S (ROLL COMPACT? OR COMPACTED OR COMPRESSED) (6A) (CLAY# OR  
SMECT  
L24 3 S (ROLL COMPACT?) (6A) (CLAY# OR SMECTITE OR BENTONITE OR  
MONTMOR

FILE 'CA' ENTERED AT 14:22:21 ON 24 AUG 2003

L25 9 S L22  
L26 2 S L24  
L27 2 S L26 NOT L25  
L28 400 S (TABLET? OR SHAPED BOD? OR PELLET? OR BRIQUET?) (P) (REGION#  
OR

L29            6 S DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR  
BRIQUET?) (  
L30            9 S L28 AND DETERGENT#  
L31            3 S L30 NOT L29

FILE 'USPATFULL' ENTERED AT 14:41:53 ON 24 AUG 2003  
L32            16 S L29

=>

L10 6 MONTMORILLONITE(P) (ACID OR HCL OR  
HYDROCHLORIC) (P)TREAT? (P) (DETE  
RGENT# OR SOFTEN? OR LAUNDRY OR FABRIC OR CLOTHING)

=> d 1-6 110 ti

L10 ANSWER 1 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI detergent compositions containing acid sensitive montmorillonite clay

L10 ANSWER 2 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Preparation and application of catalysts for preparing linear  
alkylbenzenes by alkylation of benzene with linear olefins

L10 ANSWER 3 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Granular fabric softener compositions containing smectite with good  
dispersibility in water and manufacture thereof

L10 ANSWER 4 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Polyamide-polyester conjugate fibers and mixture yarns of the fibers with  
different heat shrinkage and polyamide fabrics with low glittering and  
dry  
handle and high bulk from them and manufacture of the fabrics

L10 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI High-whiteness alkali aluminosilicate from a clay mineral containing iron

L10 ANSWER 6 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Clay composition

=>

=> d 1-8 112 ti

L12 ANSWER 1 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Synthesis of Zeolite 4A for **detergents** from montmorillonite

L12 ANSWER 2 OF 8 CA COPYRIGHT 2003 ACS on STN

TI **Softening** finishing agents for fabrics with good retention of water absorbance

L12 ANSWER 3 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Yellowing-free **softening** agents for hydrophilic fabrics

L12 ANSWER 4 OF 8 CA COPYRIGHT 2003 ACS on STN

TI **Softening** agent compositions for hydrophilic fabrics

L12 ANSWER 5 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Product and process for treating a waste aqueous dispersion with montmorillonite

L12 ANSWER 6 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Treating fibrous cellulosic materials with a montmorillonite clay and a cationic germicide

L12 ANSWER 7 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Treatment of cotton fibrous materials with montmorillonite clays and a polyamine or poly(quaternary ammonium) compound

L12 ANSWER 8 OF 8 CA COPYRIGHT 2003 ACS on STN

TI Biodegradable alkylbenzenesulfonates

=>

L14 ANSWER 3 OF 3 CA COPYRIGHT 2003 ACS on STN  
 AN 87:137639 CA  
 TI Synthetic zeolites for **detergent** builders  
 IN Sugawara, Yujiro; Nakazawa, Tadahisa; Usui, Koichi; Nato, Hiroyuki;  
 Ogawa,  
 Masahide  
 PA Mizusawa Industrial Chemicals, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC C11D003-08  
 CC 46-6 (Surface Active Agents and Detergents)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 52062314	A2	19770523	JP 1975-137813	19751118
	JP 55018277	B4	19800517		
PRAI	JP 1975-137813		19751118		

AB **Smectite**-type clay is **treated** with **acid**  
 until the x-ray diffraction peaks from (001) disappear and the Al<sub>2</sub>O<sub>3</sub>:SiO<sub>2</sub>  
 molar ratio reaches 1:11-99, ground to size distributions of >20 wt.%  
 <5.mu. and <30% >20 .mu., Al<sub>2</sub>O<sub>3</sub> and Na<sub>2</sub>O added to satisfy zeolite  
 comps.,  
 and heated to give zeolites having size distributions of >40% <5 .mu. and  
 <30% >8 .mu., which were useful as **detergent** builders. Thus,  
 76.5 g acidic white clay (SiO<sub>2</sub> 72.1, Al<sub>2</sub>O<sub>3</sub> 14.2, Fe<sub>2</sub>O<sub>3</sub> 3.87, MgO 3.25,  
 and  
 CaO 1.06%) was treated 10 h with 200 mL of 50% H<sub>2</sub>SO<sub>4</sub> at 90.degree.,  
 washed  
 with H<sub>2</sub>O, dispersed in H<sub>2</sub>O, beaten 20 min in a blender to give a powder  
 contg. 48.3% <5-.mu.-diam and 51.7% 5-20 .mu.-diam. particles having no  
 x-ray defraction from (001). Na aluminate and NaOH were added to a  
 slurry  
 of the above powder to make the molar ratios of Na<sub>2</sub>O-SiO<sub>2</sub>, SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub>,  
 and  
 H<sub>2</sub>O-Na<sub>2</sub>O 0.9, 2.0, and 50.0, resp., at 20.degree., heated 3 h at  
 95.degree., filtered out, and dried to give a zeolite powder contg. 71  
 and  
 2% of .ltoreq.5 and .gtoreq.8 .mu.-diam. particles which had excellent  
 rinse.

ST zeolite **detergent** builder; clay zeolite synthesis  
 IT **Detergents**  
 (builders for, synthetic zeolites as)  
 IT Zeolites, preparation  
 RL: PREP (Preparation)  
 (manuf. of synthetic, for **detergent** builders)  
 IT Clays, uses and miscellaneous  
 RL: USES (Uses)  
 (zeolite manufd. from, for **detergent** builders)

=>

L18 ANSWER 15 OF 22 CA COPYRIGHT 2003 ACS on STN

AN 98:108841 CA

TI Acid-treated clays as **fabric softeners**

PA Lion Corp., Japan; Kunimine Kogyo K. K.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC D06M013-20; C11D003-12; D06M011-06

CC 40-9 (Textiles)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 57167454	A2	19821015	JP 1981-50297	19810403
	JP 63039708	B4	19880808		
PRAI	JP 1981-50297		19810403		

AB **Montmorillonite** clays purified with mixts. contg. **HCl** and **citric acid** [77-92-9] are useful for **softening fabrics** without yellowing. Thus, 100 g bentonite clays were purified with a mixt. of 5.0 g citric anhydride [24555-16-6] and 35.0 g conc. **HCl** and washed. Yellowing did not occur on **softening** laundered towels with the purified clays, whereas yellowing occurred for towels **softened** with clays purified with **HCl** only.

ST bentonite **fabric softener**; garment **softener**  
bentonite; towel **softener** bentonite; yellowing prevention  
**fabric softening**; purifn bentonite **fabric softener**; hydrochloric acid bentonite purifn; citric acid bentonite purifn

IT **Softening** agents

(for **fabrics**, acid-purified bentonite as)

IT Bentonite, uses and miscellaneous

RL: PUR (Purification or recovery); PREP (Preparation)

(purifn. of, with hydrochloric acid and citric acid, for **fabric softeners**)

IT Wearing apparel

(**softeners** for, acid-purified bentonite as)

IT Discoloration prevention

(yellowing, in **softening** of **fabrics** with bentonite, by hydrochloric and citric acids)

IT 7647-01-0P, uses and miscellaneous 24555-16-6P

RL: PREP (Preparation); USES (Uses)

(purifn. by citric acid and, of bentonite **fabric softeners**)

IT 77-92-9P, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(purifn. by hydrochloric acid and, of bentonite **fabric softeners**)

=>

L18 ANSWER 15 OF 22 CA COPYRIGHT 2003 ACS on STN

AN 98:108841 CA

TI Acid-treated clays as **fabric softeners**

PA Lion Corp., Japan; Kunimine Kogyo K. K.

SO Jpn. Kokai Tokkyo Koho, 8 pp.

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DT Patent

LA Japanese

IC D06M013-20; C11D003-12; D06M011-06

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AB **Montmorillonite** clays purified with mixts. contg. **HCl** and **citric acid** [77-92-9] are useful for **softening fabrics** without yellowing. Thus, 100 g bentonite clays were purified with a mixt. of 5.0 g citric anhydride [24555-16-6] and 35.0 g conc. **HCl** and washed. Yellowing did not occur on **softening** laundered towels with the purified clays, whereas yellowing occurred for towels **softened** with clays purified with **HCl** only.

ST bentonite **fabric softener**; garment **softener**  
bentonite; towel **softener** bentonite; yellowing prevention  
**fabric softening**; purifn bentonite **fabric softener**; hydrochloric acid bentonite purifn; citric acid bentonite purifn

IT **Softening** agents

(for **fabrics**, acid-purified bentonite as)

IT Bentonite, uses and miscellaneous

RL: PUR (Purification or recovery); PREP (Preparation)

(purifn. of, with hydrochloric acid and citric acid, for **fabric softeners**)

IT Wearing apparel

(**softeners** for, acid-purified bentonite as)

IT Discoloration prevention

(yellowing, in **softening** of **fabrics** with bentonite, by hydrochloric and citric acids)

IT 7647-01-0P, uses and miscellaneous 24555-16-6P

RL: PREP (Preparation); USES (Uses)

(purifn. by citric acid and, of bentonite **fabric softeners**)

IT 77-92-9P, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(purifn. by hydrochloric acid and, of bentonite **fabric softeners**)

=>

L19 4 MONTMORILLONITE(P) (ACID OR HCL OR  
HYDROCHLORIC) (P) TREAT? (P) (DETE  
RGENT# OR SOFTEN? OR LAUNDRY OR FABRIC OR CLOTHING)

=> d 1-4 119 ti

L19 ANSWER 1 OF 4 USPATFULL on STN  
TI Wash cycle unit dose softener

L19 ANSWER 2 OF 4 USPATFULL on STN  
TI Air cleaning apparatus, air filter and method for manufacturing the  
same

L19 ANSWER 3 OF 4 USPATFULL on STN  
TI Non-brittle laundry bars comprising coconut alkyl sulfate and  
polyethylene glycol

L19 ANSWER 4 OF 4 USPATFULL on STN  
TI Laundry bars with polyethylene glycol as a processing aid

=>



=> d 1-25 121 ti

L21 ANSWER 1 OF 25 USPATFULL on STN

TI Process for preparing heterocycles

L21 ANSWER 2 OF 25 USPATFULL on STN

TI Hydrocarbon recovery from corrosive effluent stream

L21 ANSWER 3 OF 25 USPATFULL on STN

TI Isomerization process with improved chloride recovery

L21 ANSWER 4 OF 25 USPATFULL on STN

TI Hydrocarbon conversion with additive loss prevention

L21 ANSWER 5 OF 25 USPATFULL on STN

TI Fabric softening products based on a combination of pentaerythritol compound and bentonite }

L21 ANSWER 6 OF 25 USPATFULL on STN

TI Hydrocarbon conversion with additive loss prevention

L21 ANSWER 7 OF 25 USPATFULL on STN

TI Method of fabricating a porous clay composite including inorganic particles with metal particles deposited thereon

L21 ANSWER 8 OF 25 USPATFULL on STN

TI Sandalwood odorants

L21 ANSWER 9 OF 25 USPATFULL on STN

TI Process for regenerating a catalyst used in production of olefins by catalytic ether decomposition

L21 ANSWER 10 OF 25 USPATFULL on STN

TI Highly attrition resistant mesoporous catalytic cracking catalysts

L21 ANSWER 11 OF 25 USPATFULL on STN

TI Increasing the level of 2-methyl-2-butene in isoamylene

L21 ANSWER 12 OF 25 USPATFULL on STN

TI Process for regenerating a catalyst and resultant regenerated catalyst and production of olefins by catalytic ether decomposition using regenerated catalyst

L21 ANSWER 13 OF 25 USPATFULL on STN

TI Sandalwood odorants

L21 ANSWER 14 OF 25 USPATFULL on STN

TI Sandalwood odorants

L21 ANSWER 15 OF 25 USPATFULL on STN

TI Sandalwood odorants

L21 ANSWER 16 OF 25 USPATFULL on STN

TI Thickened acid cleaner compositions containing quaternary ammonium germicides and having improved thermal stability

L21 ANSWER 17 OF 25 USPATFULL on STN

TI Process for the transalkylation or dealkylation of alkyl aromatic hydrocarbons

L21 ANSWER 18 OF 25 USPATFULL on STN  
TI Process for the conversion of a C.sub.2 to C.sub.10 aliphatic linear olefin to a product comprising hydrocarbons of higher carbon number

L21 ANSWER 19 OF 25 USPATFULL on STN  
TI Alkali metal aluminosilicate detergent builder

L21 ANSWER 20 OF 25 USPATFULL on STN  
TI Mineral stabilized resin emulsion

L21 ANSWER 21 OF 25 USPATFULL on STN  
TI Method for acidizing a subterranean formation

L21 ANSWER 22 OF 25 USPATFULL on STN  
TI Process for the production of .alpha., .alpha., .alpha., .alpha.', .alpha.', .alpha.'-hexakisaryl-1,3- and -1,4-dimethyl benzenes

L21 ANSWER 23 OF 25 USPATFULL on STN  
TI Process for the production of .alpha., .alpha., .alpha., .alpha.', .alpha.', .alpha.', -hexakisaryl-1,3-and-1,4-dimethyl benzenes

L21 ANSWER 24 OF 25 USPATFULL on STN  
TI METHOD OF MANUFACTURING ALCOHOLS

L21 ANSWER 25 OF 25 USPATFULL on STN  
TI PROCESS OF DYEING CELLULOSIC FIBERS WITH MONTMORILLONITE CLAY AND A POLYMERIZED FATTY NITROZEN COMPOUND AND PRODUCTS OBTAINED THEREBY

=>

22            26 (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL COMPACT?  
                 OR COMPACTED OR COMPRESSED OR PELLET? OR BRIQUET?) (6A) (CLAY#  
                 OR SMECTITE OR BENTONITE OR MONTMORILLONITE OR LAVIOSA OR  
GELWHI                            TE OR SAPONITE)

=> d 1-26 122 ti

L22 ANSWER 1 OF 26 USPATFULL on STN  
TI     Cleaning compositions

L22 ANSWER 2 OF 26 USPATFULL on STN  
TI     Detergent compositions

L22 ANSWER 3 OF 26 USPATFULL on STN  
TI     Multifunctional, granulated pellet aid and process

L22 ANSWER 4 OF 26 USPATFULL on STN  
TI     ELONGATED LIQUID ABSORBENT PAD AND SYSTEM FOR COLLECTING LEAKS AND  
         SPILLS

L22 ANSWER 5 OF 26 USPATFULL on STN  
TI     Pollution remedial composition and its preparation

L22 ANSWER 6 OF 26 USPATFULL on STN  
TI     Lipid pelletization methods, apparatus and products

L22 ANSWER 7 OF 26 USPATFULL on STN  
TI     Lipid pelletization methods, apparatus and products

L22 ANSWER 8 OF 26 USPATFULL on STN  
TI     Shaped wood-based active carbon

L22 ANSWER 9 OF 26 USPATFULL on STN  
TI     Method and materials for enhancement of plant growth characteristics

L22 ANSWER 10 OF 26 USPATFULL on STN  
TI     Use of alkyl(aminocarbonyl)phosphonate salts in rice culture for the  
         control of problem herbaceous plant growth

L22 ANSWER 11 OF 26 USPATFULL on STN  
TI     Sulphur pelletization process

L22 ANSWER 12 OF 26 USPATFULL on STN  
TI     Carbamoylphosphonates

L22 ANSWER 13 OF 26 USPATFULL on STN  
TI     Herbicidal halo-di-alkyl benzenesulfonamides

L22 ANSWER 14 OF 26 USPATFULL on STN  
TI     Plant growth regulant carbamoylphosphonates

L22 ANSWER 15 OF 26 USPATFULL on STN  
TI     Plant growth regulant carbamoylphosphonates

L22 ANSWER 16 OF 26 USPATFULL on STN  
TI     Carbamoylphosphonates

L22 ANSWER 17 OF 26 USPATFULL on STN  
TI Cyanobenzeneacetonitriles

L22 ANSWER 18 OF 26 USPATFULL on STN  
TI Carbamoylphosphonates

L22 ANSWER 19 OF 26 USPATFULL on STN  
TI 4-Halo-2,5-dialkyl-benzeneacetonitriles

L22 ANSWER 20 OF 26 USPATFULL on STN  
TI Cyano-and cyanomethyl-benzensulfonamides

L22 ANSWER 21 OF 26 USPATFULL on STN  
TI Herbicidal compositions and methods

L22 ANSWER 22 OF 26 USPATFULL on STN  
TI Herbicidal compounds, compositions and methods

L22 ANSWER 23 OF 26 USPATFULL on STN  
TI PHOSPHONAMIDE PLANT GROWTH REGULANTS

L22 ANSWER 24 OF 26 USPATFULL on STN  
TI CARBAMOYLPHOSPHONATES

L22 ANSWER 25 OF 26 USPATFULL on STN  
TI PLANT GROWTH REGULANT CARBAMOYLPHOSPHONATES

L22 ANSWER 26 OF 26 USPATFULL on STN  
TI METHOD OF INCREASING SUGAR CONTENT OF CROPS

=>

L25 9 (TABLET? OR PELLET? OR BRIQUET?) (P) DETERGENT# AND (ROLL  
COMPACT?  
OR COMPACTED OR COMPRESSED OR PELLET? OR BRIQUET?) (6A) (CLAY#  
OR SMECTITE OR BENTONITE OR MONTMORILLONITE OR LAVIOSA OR  
GELWHI  
TE OR SAPONITE)

=> d 1-9 125 ti

L25 ANSWER 1 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Process for production of **detergent tablets** containing  
clay perfume carrier

L25 ANSWER 2 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Multifunctional granulated pellet aid and process

L25 ANSWER 3 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI **Detergent tablet** compositions containing smectite  
clays

L25 ANSWER 4 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Detergent compositions for cleaning and softening of fabrics

L25 ANSWER 5 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Detergent compositions for cleaning, whitening, and softening of fabrics

L25 ANSWER 6 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Cleaning compositions and tablets

L25 ANSWER 7 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI **Detergent tablets** containing bentonite disintegration  
aid, their production and their use

L25 ANSWER 8 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Granular nonionic detergent composition and its production method

L25 ANSWER 9 OF 9 CA COPYRIGHT 2003 ACS on STN  
TI Manufacture of high-bulk granular detergent compositions

=>

L25 ANSWER 7 OF 9 CA COPYRIGHT 2003 ACS on STN

AN 133:283309 CA

TI **Detergent tablets** containing bentonite disintegration aid, their production and their use

IN Lietzmann, Andreas; Artiga Gonzales, Rene; Block, Christian; Kruse, Hans-Friedrich

PA Henkel K.-G.a.A., Germany

SO Ger. Offen., 18 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C11D017-00

ICS C11D003-08; C11D001-83

CC 46-5 (Surface Active Agents and Detergents)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19915321	A1	20001005	DE 1999-19915321	19990403
PRAI	DE 1999-19915321		19990403		

AB **Detergent tablets** esp. for laundering, which are characterized by high hardness and at the same time short dissolving time,

are produced which contain 1-10% bentonites, whereby at least 70 wt.% of the bentonite has a particle size between 400 and 1600 .mu.m. An example was given which contained anionic and nonionic surfactants and **bentonite** which had been **compacted** to increase the majority of the particles to a size of >0.6 mm. The compaction decreased the **tablet** dissoln. time from >120 s to 33 s.

ST **detergent tablet** dissolving aid **compacted bentonite**

IT **Bentonite**, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(Ex 0030; **compacted bentonite** disintegration aids for **detergent tablets**)

IT **Bentonite**, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(ammonium-treated; **compacted bentonite** disintegration aids for **detergent tablets**)

IT Surfactants

(anionic; in **detergent tablets** contg. **compacted bentonite** disintegration aids)

IT Phyllosilicate minerals

RL: MOA (Modifier or additive use); USES (Uses)  
(in **compacted bentonite** disintegration aids for **detergent tablets**)

IT **Detergents**

(laundry, **tablets**; **detergent tablets** contg. **compacted bentonite** disintegration aids)

IT Surfactants

(nonionic; in **detergent tablets** contg. **compacted bentonite** disintegration aids)

IT Silicates, uses

RL: MOA (Modifier or additive use); USES (Uses)  
(phyllo-; in **compacted bentonite** disintegration aids for **detergent tablets**)

IT 1318-93-0, **Montmorillonite**, uses 9004-34-6, Cellulose, uses

RL: MOA (Modifier or additive use); USES (Uses)

(in compacted bentonite disintegration aids for  
detergent tablets)

=>

L25 ANSWER 8 OF 9 CA COPYRIGHT 2003 ACS on STN  
 AN 131:324160 CA  
 TI Granular nonionic detergent composition and its production method  
 IN Takahashi, Tomonori; Horie, Hiromichi; Masui, Hiroyuki  
 PA Lion Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C11D003-12  
 ICS C11D001-72; C11D001-722; C11D001-74; C11D003-30; C11D003-33;  
 C11D003-36; C11D011-00; C11D017-06  
 CC 46-5 (Surface Active Agents and Detergents)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11302686	A2	19991102	JP 1998-107364	19980417
PRAI	JP 1998-107364		19980417		
AB	The <b>detergent</b> can be manufd. either by <b>pelletizing</b> a mixt. contg. nonionic surfactants, layered <b>clay</b> minerals, and transition metal chelating agents, or extruding the mixt. and pulverizing the extrudates. The <b>detergent</b> granules have good flowability.				
ST	granular detergent nonionic surfactant; transition metal chelating agent granular detergent				
IT	Bentonite, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (Bengel 23; prodn. of nonionic granular detergents with good flowability)				
IT	Detergents (granular; prodn. of nonionic granular detergents with good flowability)				
IT	Surfactants (nonionic; prodn. of nonionic granular detergents with good flowability)				
IT	Chelating agents (prodn. of nonionic granular detergents with good flowability)				
IT	60-00-4, EDTA, uses 67-43-6, Diethylenetriamine pentaacetic acid 2809-21-4, Hydroxyethanediphosphonic acid RL: TEM (Technical or engineered material use); USES (Uses) (chelating agent; prodn. of nonionic granular detergents with good flowability)				
IT	9002-92-0, Polyethylene glycol monododecyl ether RL: TEM (Technical or engineered material use); USES (Uses) (prodn. of nonionic granular detergents with good flowability)				

=>



L29           6 DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR  
BRIQUET?) (P) (           REGION# OR PHASE# OR LAYER?) (P) (CLAY# OR SMECTITIE OR  
BENTONITE           OR MONMORILLONITE OR SAPONITE OR HECTORITE)

=> d 1-6 l29 ti

L29 ANSWER 1 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Process for production of detergent tablets containing clay perfume  
carrier

L29 ANSWER 2 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Laundry tablet cleaning compositions

L29 ANSWER 3 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Detergent compositions for cleaning and softening of fabrics

L29 ANSWER 4 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Detergent compositions for cleaning, whitening, and softening of fabrics

L29 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Granular nonionic detergent composition and its production method

L29 ANSWER 6 OF 6 CA COPYRIGHT 2003 ACS on STN  
TI Organic sulfonic acids and their salts

=>

L29 ANSWER 5 OF 6 CA COPYRIGHT 2003 ACS on STN  
 AN 131:324160 CA  
 TI Granular nonionic detergent composition and its production method  
 IN Takahashi, Tomonori; Horie, Hiromichi; Masui, Hiroyuki  
 PA Lion Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C11D003-12  
 ICS C11D001-72; C11D001-722; C11D001-74; C11D003-30; C11D003-33;  
 C11D003-36; C11D011-00; C11D017-06  
 CC 46-5 (Surface Active Agents and Detergents)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11302686	A2	19991102	JP 1998-107364	19980417
PRAI	JP 1998-107364		19980417		

AB The **detergent** can be manufd. either by **pelletizing** a  
 mixt. contg. nonionic surfactants, **layered clay**  
 minerals, and transition metal chelating agents, or extruding the mixt.  
 and pulverizing the extrudates. The **detergent** granules have  
 good flowability.

ST granular detergent nonionic surfactant; transition metal chelating agent  
 granular detergent

IT Bentonite, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Bengel 23; prodn. of nonionic granular detergents with good  
 flowability)

IT Detergents  
 (granular; prodn. of nonionic granular detergents with good  
 flowability)

IT Surfactants  
 (nonionic; prodn. of nonionic granular detergents with good  
 flowability)

IT Chelating agents  
 (prodn. of nonionic granular detergents with good flowability)

IT 60-00-4, EDTA, uses 67-43-6, Diethylenetriamine pentaacetic acid  
 2809-21-4, Hydroxyethanediphosphonic acid  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (chelating agent; prodn. of nonionic granular detergents with good  
 flowability)

IT 9002-92-0, Polyethylene glycol monododecyl ether  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (prodn. of nonionic granular detergents with good flowability)

=>

L32 16 DETERGENT#(P) (TABLET? OR SHAPED BOD? OR PELLET? OR  
BRIQUET?) (P) ( REGION# OR PHASE# OR LAYER?) (P) (CLAY# OR SMECTITIE OR  
BENTONITE OR MONMORILLONITE OR SAPONITE OR HECTORITE)

=> d 1-16 132 ti

L32 ANSWER 1 OF 16 USPATFULL on STN  
TI Detergent tablet

L32 ANSWER 2 OF 16 USPATFULL on STN  
TI Cleaning compositions

L32 ANSWER 3 OF 16 USPATFULL on STN  
TI Process for preparing household detergent or cleaner shapes

L32 ANSWER 4 OF 16 USPATFULL on STN  
TI Mechanical warewashing compositions containing scale inhibiting  
polymers  
with targeted rinse cycle delivery

L32 ANSWER 5 OF 16 USPATFULL on STN  
TI Moulded body dishwasher detergents with soil release polymers

L32 ANSWER 6 OF 16 USPATFULL on STN  
TI Detergent compositions

L32 ANSWER 7 OF 16 USPATFULL on STN  
TI Process of treating fabrics with a detergent tablet comprising an ion  
exchange resin

L32 ANSWER 8 OF 16 USPATFULL on STN  
TI Detergent compositions

L32 ANSWER 9 OF 16 USPATFULL on STN  
TI Detergent compositions

L32 ANSWER 10 OF 16 USPATFULL on STN  
TI ELONGATED LIQUID ABSORBENT PAD AND SYSTEM FOR COLLECTING LEAKS AND  
SPILLS

L32 ANSWER 11 OF 16 USPATFULL on STN  
TI Compacted granulate, process for making same and use as disintegrating  
agent for pressed detergent tablets, cleaning agent tablets for  
dishwashers, water softening tablets and scouring salt tablets

L32 ANSWER 12 OF 16 USPATFULL on STN  
TI Compacted granulate, process for making same and use as disintegrating  
agent for pressed detergent tablets, cleaning agent tablets for  
dishwashers, water softening tablets or scouring salt tablets

L32 ANSWER 13 OF 16 USPATFULL on STN  
TI Tablet containing builders

L32 ANSWER 14 OF 16 USPATFULL on STN  
TI Pollution remedial composition and its preparation

L32 ANSWER 15 OF 16 USPATFULL on STN

TI Process for the production of linear alkylbenzenes

L32 ANSWER 16 OF 16 USPATFULL on STN

TI Copolymers and detergent compositions containing them

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> s e3

L2 1 LAUNDROSIL/CN

=> d 1 12

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

RN 97862-66-3 REGISTRY \*

\* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).

CN Bentonite, calcian (CA INDEX NAME)

OTHER NAMES:

CN Bentolite L 10

CN Bentonite, calcium

CN Bentonite, calcium-exchanged

CN Calcian bentonite

CN Calcium-exchanged bentonite

CN Calcium-rich bentonite

CN Carmargo White

CN Detercal G 1F

CN IGB

CN **Laundrosil**

CN Polargel HNF

CN QPC 200G

DEF Product of the reaction of bentonite with a calcium salt (such as calcium hydroxide). Calcium is substituted for some of the metals which are in bentonite.

MF Unspecified

CI MAN, CTS

SR Commission of European Communities

LC STN Files: AGRICOLA, BIOSIS, CHEMLIST, CIN, CSCHM, TOXCENTER

Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

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